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L11: Entry 1 of 3 File: DWPI Feb 4, 1993

DERWENT-ACC-NO: 1993-046572
DERWENT-WEEK: 199306
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TITLE: Soak-away type structure for drainage - made from scrap plastic material converted into absorbent porous fibrous mat with added bituminous or resin binder

INVENTOR: KALLENBERG, E; KALLENBERG, W

PATENT-ASSIGNEE:

ASSIGNEE	CODE
KALLENBERG W	KALLI

PRIORITY-DATA: 1992DE-4217739 (May 29, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 4217739 A1	February 4, 1993		003	E02B011/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 4217739A1	May 29, 1992	1992DE-4217739	

INT-CL (IPC): B09B 3/00; E01F 8/00; E02B 11/00

ABSTRACTED-PUB-NO: DE 4217739A
BASIC-ABSTRACT:

A soakaway type of mat is made of plastic material to absorb and drain off water between the soil and a building component, also to drain off the material underneath squares, parks etc. The product is made from plastic scrap which is reduced in hot state to threads; this is converted into a matted material which is in part welded and elastic but stable and which has a large number of voids. Preferred structures have glass cloth with bituminous or resin adhesive binder.

ADVANTAGE - Its prodn. uses scrap and is therefore environmentally favourable and energy-saving. It uses up quantities from the scrap ''mountains'' and reduces incineration. Its drainage effect is valuable for buildings.

CHOSEN-DRAWING: Dwg.1/3

TITLE-TERMS: SOAK TYPE STRUCTURE DRAIN MADE SCRAP PLASTIC MATERIAL CONVERT ABSORB POROUS FIBRE MAT ADD BITUMEN RESIN BIND

DERWENT-CLASS: A93 P43 Q41 Q42

CPI-CODES: A11-C01A; A11-C03; A12-R;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:
Key Serials: 0231 1983 2401 2405 2454 2621 2628 2653 2654 2682 2692 2736 2819 3214 3228 3250 3258

Multipunch Codes: 014 04- 12- 274 421 426 454 50& 52& 532 533 535 551 560 566 575 595

596 61- 613 623 626 651 664 724 014 04- 12- 251 274 421 426 454 50& 52& 532 533 535 551
560 566 575 595 596 609 61- 613 623 626 651 724

SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C1993-020968
Non-CPI Secondary Accession Numbers: N1993-035679

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L4: Entry 2 of 21 File: DWPI Apr 2, 1998

DERWENT-ACC-NO: 1998-230585
DERWENT-WEEK: 199845
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TITLE: Pipe, for diffusion of gas into medium, in e.g. sewage works - comprises thermoset particles and thermoplastics binder, and has uniform porosity

INVENTOR: MITCHELL, W S

PATENT-ASSIGNEE:

ASSIGNEE	CODE
PLASTIC SPECIALTIES & TECHNOLOGIES	PLASN

PRIORITY-DATA: 1996US-0720078 (September 27, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9813306 A1	April 2, 1998	E	038	C02F003/20
US 5811164 A	September 22, 1998		000	B29C047/92
AU 9717105 A	April 17, 1998		000	C02F003/20

DESIGNATED-STATES: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
WO 9813306A1	January 24, 1997	1997WO-US01224	
US 5811164A	September 27, 1996	1996US-0720078	
AU 9717105A	January 24, 1997	1997AU-0017105	
AU 9717105A		WO 9813306	Based on

INT-CL (IPC): B01 F 3/04; B29 C 47/92; B32 B 5/18; C02 F 3/20; F16 L 11/12

ABSTRACTED-PUB-NO: US 5811164A
BASIC-ABSTRACT:

Pipe, with a gas permeable wall, comprises thermoset polymer particles in a thermoplastic binder and has a uniform porosity provided by micropores of 0.001-0.004 inch diameter throughout its length. The polymer particles have a mesh size of 60-140.

Also claimed is the method of making the pipe by volumetric delivery of the particles (from 50) and the binder (from 86) to a mixing hopper (68) where they are pre-blended to be volumetrically delivered (72) into an extruder (21).

Preferably the pipe has 80% rubber particles and 20% linear low density polyethylene binder.

USE - Particularly in oxygen diffusion into various mediums, e.g. for sewage treatment, water purification, aquaculture, or in agriculture for subsurface diffusion of air or nitrogen.

ADVANTAGE - Pipe has uniform gas porosity and wear on the extrusion apparatus is reduced.
ABSTRACTED-PUB-NO:

WO 9813306A
EQUIVALENT-ABSTRACTS:

Pipe, with a gas permeable wall, comprises thermoset polymer particles in a thermoplastic binder and has a uniform porosity provided by micropores of 0.001-0.004 inch diameter throughout its length. The polymer particles have a mesh size of 60-140.

Also claimed is the method of making the pipe by volumetric delivery of the particles (from 50) and the binder (from 86) to a mixing hopper (68) where they are pre-blended to be volumetrically delivered (72) into an extruder (21).

Preferably the pipe has 80% rubber particles and 20% linear low density polyethylene binder.

USE - Particularly in oxygen diffusion into various mediums, e.g. for sewage treatment, water purification, aquaculture, or in agriculture for subsurface diffusion of air or nitrogen.

ADVANTAGE - Pipe has uniform gas porosity and wear on the extrusion apparatus is reduced.

CHOSEN-DRAWING: Dwg.3/4

TITLE-TERMS: PIPE DIFFUSION GAS MEDIUM SEWAGE WORK COMPRISE THERMOSETTING PARTICLE THERMOPLASTICS BIND UNIFORM POROUS

DERWENT-CLASS: A88 D15 P73 Q67

CPI-CODES: A04-G02E4; A07-A02; A07-A04; A11-A03; A11-B07B; A12-H02; D04-A01K;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1740P; 1779U

ENHANCED-POLYMER-INDEXING:
Polymer Index [1.1] 018 ; H0328 ; S9999 S1456*R ; H0124*R Polymer Index [1.2] 018 ; B9999 B5209 B5185 B4740 Polymer Index [1.3] 018 ; ND01 ; ND07 ; N9999 N5970*R ; N9999 N6439 ; B9999 B5221 B4740 ; Q9999 Q8731 Q8719 ; Q9999 Q8753 ; Q9999 Q6951*R Q6939 ; Q9999 Q6702*R ; K9745*R ; N9999 N6360 N6337 ; N9999 N6611*R ; N9999 N6622 N6611 ; J9999 J2915*R ; K9416 Polymer Index [2.1] 018 ; G0033*R G0022 D01 D02 D51 D53 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 ; H0317 ; S9999 S1661 ; H0022 H0011 ; H0033 H0011 ; P1252 ; P1150 Polymer Index [2.2] 018 ; Q9999 Q6791 Polymer Index [2.3] 018 ; ND01 ; ND07 ; N9999 N5970*R ; N9999 N6439 ; B9999 B5221 B4740 ; Q9999 Q8731 Q8719 ; Q9999 Q8753 ; Q9999 Q6951*R Q6939 ; Q9999 Q6702*R ; K9745*R ; N9999 N6360 N6337 ; N9999 N6611*R ; N9999 N6622 N6611 ; J9999 J2915*R ; K9416

SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C1998-072077
Non-CPI Secondary Accession Numbers: N1998-182571